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Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.09/BHS/CUBE/2012-13

19.04.2013

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Mr. B.H. Shivakumar,** Contractor, Bangalore.
Name of the work	: Improvements of Nanjappa Circle in Ward No.09, BBMP, Bangalore.
Reference	: AEE/VP/WO/330/2012-13 Dated: 08.03.2013
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.03.2013	19.04.2013	8.147	521.6	23.18
2	22.03.2013	19.04.2013	8.268	536.4	23.84
3	22.03.2013	19.04.2013	8.394	540.9	24.04

Note:

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2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

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Job No.: CTCE/BBMP/W.No.09/BHS /STEEL/2012-13 11.03.2013

TEST REPORT ON REINFORCEMENT STEEL

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Client	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. B.H. Shivakumar,** Contractor, Bangalore.
Name of the work	:	Improvements of Nanjappa Circle in Ward No.09, BBMP, Bangalore.
Reference	:	AEE/VP/WO/330/2012-13 Dated: 08.03.2013
Date of Test	:	11.03.2013
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	10	0.62	513	550	13.25	O.K	O.K

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Job No.: CTCE/BBMP/W.No.09/BHS/AGG/2012-13 : 11.03.2013

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. B.H. Shivakumar,** Contractor, Bangalore.

Name of Work : Improvements of Nanjappa Circle in Ward No.09, BBMP, Bangalore.

Reference : AEE/VP/WO/330/2012-13 Dated: 08.03.2013

Date of Testing : 11.03.2013

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **26000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	990	3.81	3.81	96.19	95-100
20	15950	61.35	65.15	34.85	30-70
10	6135	23.60	88.75	11.25	10-35
4.75	2580	9.92	98.67	1.33	0-5

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Job No.: CTCE/BBMP/W.No.09/BHS/SAND/2012-13 : 11.03.2013

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TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. B.H. Shivakumar,** Contractor, Bangalore.

Name of Work : Improvements of Nanjappa Circle in Ward No.09, BBMP, Bangalore.

Reference : AEE/VP/WO/330/2012-13 Dated: 08.03.2013

Date of Testing : 11.03.2013

Material : Sand

Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	102	5.10	5.10	94.9	90-100
2.36	223	11.15	16.25	83.8	75-100
1.18	510	25.50	41.75	58.3	55-90
600 Micron	428	21.40	63.15	36.9	35-59
300 Micron	487	24.35	87.50	12.5	8-30
150 Micron	205	10.25	97.75	2.3	0-10

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Job No.: CTCE/BBMP/W.No.09/BHS/CEMENT/2012-13

Date: 11.03.2013

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. B.H. Shivakumar,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements of Nanjappa Circle in Ward No.09, BBMP, Bangalore.
REFERENCE	:	AEE/VP/WO/330/2012-13 Dated: 08.03.2013
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	475 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.50 %	-

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